



Response After Final
Application No. 10/801,546
Attorney Docket No. 042122

REMARKS

Claims 1, 2, 4, 5 and 8-36 are pending in the application.

Claim Rejections - 35 U.S.C. § 102

Claim 1 was rejected under 35 U.S.C. § 102(e) as being anticipated by **Toguchi** (U.S. Patent No. 6,747,287; hereinafter referred to as "Toguchi '287"). Favorable reconsideration is requested.

Applicant respectfully submits that Toguchi '287 does not disclose either a perylene compound substituted by two or more styryl groups each substituted by a diarylamino group or an anthanthrene compound substituted by four diarylamino groups as recited in claim 1.

The perylene compound as recited in claim 1 requires that the compound be substituted by Formula 2, which is a styryl group substituted by a diarylamino group.

Toguchi '287 discloses that X in Formula [A] can be perylene. (Col. 3, lines 62-65.) One of the diarylamino groups in Formula [A] can include a styryl group as a substituent. (Col. 4, lines 1-4.) However, Toguchi '287 does not disclose the perylene compound itself substituted by a styryl group and the styryl group substituted by a diarylamino group.

In the Interview dated September 7, 2006, the Examiner acknowledged that Toguchi '287 does not disclose the perylene compound as recited in claim 1.



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The anthanthrene compound as recited in claim 1 requires that four of R¹⁰¹⁻¹¹² be substituted by formula 102 which is an amino group having two substituents of either phenyl or naphthyl.

The broad disclosure in Toguchi '287 may encompass an anthanthrene compound as recited in claim 1; however, the disclosure in Toguchi '287 is too broad and does not disclose any specific examples falling within the claimed range of compounds. If a reference, having a range of compounds overlapping a claimed range of compounds, does not disclose the claimed subject matter with sufficient specificity, then the claimed subject matter is not anticipated. (MPEP § 2131.04(II).)

Toguchi '287 discloses that X in Formula [A] is selected from condensed aromatic hydrocarbon groups having 6 to 34 carbons, and that n in Formula [A] is from 1 to 4. (Col. 3, lines, 51-55.) Toguchi '287 discloses four hundred twenty three example compounds (col. 12, lines 65-67), which is a very small number of compounds actually encompassed within the disclosure of Toguchi '287.

Out of the four hundred twenty three examples, Toguchi '287 discloses two examples of anthanthrene compounds. (Col. 19, example 31; col. 20, example 32.) However, neither of these examples discloses an anthanthrene compound substituted by four amino groups and each amino group having two substituents of either a phenyl or naphthyl group and each of the phenyl or naphthyl having substituents as recited in claim 1.

In the Interview dated September 7, 2006, the Examiner acknowledged that Toguchi '287 discloses too broad of a range of compounds and does not disclose a compound within the range of compounds as recited in claim 1 with sufficient specificity.

Toguchi '287 discloses a broad range of compounds and does not disclose any examples within the claimed range. Thus, Toguchi '287 does not anticipate claim 1. In addition, Applicant respectfully submits that claim 1 is unobvious over Toguchi '287 based on the unexpected results provided in the Amendment filed March 1, 2006, pages 18-20.

Toguchi '287 does not disclose the perylene compound as recited in claim 1, and does not disclose the anthanthrene compound as recited in claim 1 with sufficient specificity. Therefore, Toguchi '287 does not anticipate claim 1.

Claim Rejections - 35 U.S.C. § 103

A. Toguchi '287 in view of Ohashi

Claims 1 and 14-36 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Toguchi '287 in view of **Ohashi** (U.S. Patent No. 5,200,668). Favorable reconsideration is requested.

Claims 1, 11 and 14 are not obvious over Toguchi '287 in view of Ohashi for the same reasons stated above regarding the § 102 rejection of claim 1 based solely on Toguchi '287.

Claims 15-36 all depend directly or indirectly from either claim 1, 11 or 14. Thus, claims 1 and 14-36 are not obvious over Toguchi '287.

B. Toguchi '097

Claims 1, 2, 4, 5 and 8-13 were rejected under 35 U.S.C. §103(a) as being unpatentable over **Toguchi** (U.S. Patent No. 6,753,097; hereinafter referred to as "Toguchi '097"). Favorable reconsideration is requested.

Applicant respectfully submits that Toguchi '097 does not disclose either a perylene compound substituted by two or more styryl groups each substituted by a diarylamino group or an anthanthrene compound substituted by four diarylamino groups as recited in claim 1.

The perylene compound as recited in claim 1 requires that the compound be substituted by Formula 2, which is a styryl group substituted by a diarylamino group.

Toguchi '097 does not disclose an anthanthrene compound. However, Toguchi '097 discloses a perylene compound. (Col. 3, lines 20-30.) The perylene compound is formula C1. R¹ through R⁴ in formula C1 can be a styryl group. (Col. 3, lines 31-35; col. 10, lines 22-25.) In addition, at least one of R¹ through R⁴ is a diarylamino group. (Col. 3, lines 30-45.) However, Toguchi '287 does not disclose the perylene compound having a styryl group substituted by a diarylamino group.

The Office Action cited Toguchi '097, col. 5, lines 3-7. (Office Action, page 5.) This passage discloses that a benzoperylene compound having a diarylamino group as a substituent can provide light-emission with a higher brightness if it also separately includes an aryl group having a styryl group as a substituent. This passage does not disclose a perylene compound having a styryl group substituted by a diarylamino group.

The Office Action alleges that aryl is generic and that the diarylamino group is encompassed within the aryl group. (Office Action, page 5.) Even assuming that it would have been obvious to use a diarylamino group in place of the aryl compound, this still does not disclose a perylene compound having a substituted styryl group substituted by a diarylamino group. If the aryl compound is replaced with a diarylamino group, then the perylene compound would have a diarylamino group as a substituent which is substituted by a styryl group.

The Office Action alleges that it would have been obvious to have phenyl or naphthyl as the aryl group (Office Action, page 5.) Even assuming that it would have been obvious to have phenyl or naphthyl as the aryl group, this does not disclose a perylene compound having a substituted styryl group substituted by a diarylamino group. If the aryl compound is replaced with a phenyl or naphthyl group, then the perylene compound would have a phenyl or naphthyl group as a substituent which is substituted by a styryl group.

In the Interview dated September 7, 2006, the Examiner acknowledged that Toguchi '097 does not disclose the compounds as recited in claim 1.

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Therefore, claims 1, 2, 4, 5 and 8-13 are unobvious over Toguchi '097.

Accordingly, withdrawal of the rejections of claims 1, 2, 4, 5 and 8-36 based on Toguchi '287, Toguchi '287 in view of Ohashi, and Toguchi '097 is hereby solicited.

In view of the aforementioned remarks, Applicant submits that that the claims are in condition for allowance. Applicant requests such action at an early date.

If the Examiner believes that this application is not now in condition for allowance, the Examiner is requested to contact Applicant's undersigned attorney to arrange for an interview to expedite the disposition of this case.

If this paper is not timely filed, Applicant respectfully petitions for an appropriate extension of time. The fees for such an extension or any other fees that may be due with respect to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP



Andrew G. Melick
Attorney for Applicants
Registration No. 56,868
Telephone: (202) 822-1100
Facsimile: (202) 822-1111

AGM/tw